-6046

B

PROJECT

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

STANLY COUNTY

SR 1917 (BETHLEHEM CHURCH RD.)

NOT TO SCALE

BEGIN CONSTRUCTION -Y-POC STA. 10+00.00

> END TIP B-6046 -L-POC STA. 22+15.00

STATE PROJECT REFERENCE NO

B-6046

 $\mathbb{R} \mathbb{W} 01$

N.C.

END CONSTRUCTION -L-POC STA. 22 + 50.00

BEGIN TIP B-6046 -L-POC STA. 13 + 20.00

GRAPHIC SCALE

PLANS

40 20 0

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B6046-1" WITH NAD 83/2011 STATE PLANE GRID COORDINATES OF NORTHING: 540,471.615 (ft) EASTING: 1,626,587.533 (ft) **ELEVATION: 505.886(ft)** THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999853245 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B6046-1" TO -L- STATION 23+86.84 IS S 56°51'23" W 2463.82 (ft)

Prepared in the Office of: Dewberry

Dewberry Engineers Inc. 9300 Harris Corners Pkwy - Suite 220 Charlotte, NC 28269 Phone: 704.509.9918 Fax: 704.509.9937 www.dewberry.com NCBELS #F-0929

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: 04/01/22

LETTING DATE:

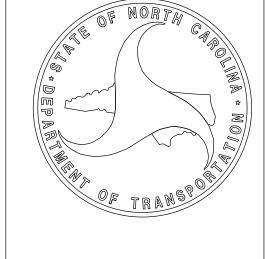
END BRIDGE

-L-STA.19+01.89

PROFESSIONAL LAND **SURVEYOR**

RW04





ALL LINEAR DIMENSIONS ARE LOCALIZED HÓRIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

BEGIN BRIDGE

-L-STA.16+29.26

12/2023

Gavin Proffit, PLS

SIGNATURE:

7/5/2022 Date:

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO. B-6046 rw2c–1 Location and Surveys

Dewberry



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Gaivn D. Proffit, PLS, certify that the Project Control was verified under my supervision from an actual survey made under my supervision and the following information was used to perform the survey:

Localized around: B-6046-1 Northing:540471.6154 Easting:1626587.5331 Combined grid factor: 0.999853245 Geoid model: GEOID12B Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 04-15-2021 to 06-11-2021, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of July, 2021.

Gavin Proffit, PLS

Professional Land Surveyor L-5298

B6046-I

BL-102 B6046-2 ● BL-101

SEE SHEET RW2C-3 FOR FURTHER ALIGNMENT DETAILS

NOTES:

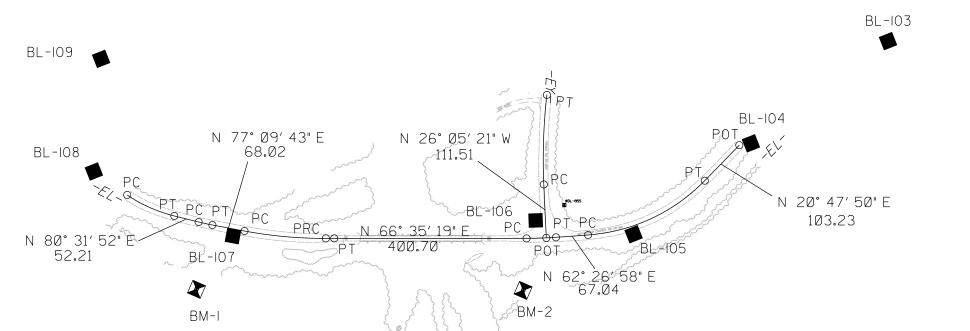
- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

B6046-4

BL-III

B6046-3

BL-IIO



2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Dewberry

Dewberry Engineers Inc.

S300 Harfs Corners Pkwy - Sultle 220
Charlotte, NC 28289
Phone: 704.509.9917
www.dewberry.com
NCBELS #F-0929

PROJECT SURVEYOR

PROJECT SURVEYOR

SEAL
L-5298

PROJECT REFERENCE NO.

SHEET NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Gavin D. Proffit, PLS, certify that the Project Control was verified under my supervision from an actual survey made under my supervision and the following information was used to perform the survey:

Localized around: B-6046-1 Northing:540471.6154 Easting:1626587.5331 Combined grid factor: 0.999853245 Geoid model: GEOID12B Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 04-15-2021 to 06-11-2021, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of July, 2021.

Gavin Proffit, PLS

Professional Land Surveyor L-5298

3L				
POINT	DESC.	NORTH	EAST	ELEVATION
1	B6Ø46-1	540471.6150	1626587.5330	505.89
2	B6Ø46-2	539978.4700	1626346.2000	466.97
BL101	BL - 101	539761.9730	1625892.9480	432.34
BL102	BL - 102	539532.1300	1625292.8200	384.50
BL103	BL - 103	539544.6740	1624760.0720	352.53
BL104	BL - 104	539235.7330	1624582.6220	334.98
BL105	BL - 105	538964.7750	1624433.4680	314.42
BL106	BL - 106	538910.1580	1624234.7820	291.22
BL107	BL - 107	538629.6280	1623668.9390	306.19
BL108	BL - 108	538637.9700	1623349.5050	346.61
BL109	BL - 109	538859.2870	1623270.0780	368.53
BL110	BL - 110	539187.9510	1623273.1370	381.20
BL111	BL - 111	539435.0810	1623047.8650	397.86
3	B6Ø46-3	539512.2490	1622820.9960	413.10
4	B6Ø46-4	539349.7010	1622139.9790	431.63

BM1 ELEVATION = 304.00 N 538498 E 1623643 RR SPIKE IN THE BASE OF A 15" OAK

BM2 ELEVATION = 288.19
N 538766 E 1624269
RR SPIKE IN BASE OF 15" SYCAMORE TREE

NOTES:

- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

05-JUL-2022 ||:52 P:\50152137\CAD\Survey\b6046\RW files\B6046-1\$ CP_6f;+

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	538620.723	1623432.833							
CURVE			S 89°20′49.5" E	107.46	20°14′37.7"(LT)	18°44′26.1"	108.02	54.58	305.73
PT	538619.499	1623540.286							
LINE			N 80°31′51.6" E	52.21					
PC	538628.088	1623591.784							
CURVE			N 78°50′47.3" E	29.40	Ø3°22′Ø8.6"(LT)	11°27′33.Ø"	29.40	14.70	500.00
PT	538633.774	1623620.625							
LINE			N 77°Ø9′43.1" E	68.02					
PC	538648.888	1623686.944							
CURVE			N 71°46′31.2" E	170.24	10°46′23.8"(LT)	Ø6°19′Ø8.9"	170.49	85.50	906.70
PCC	538702.128	1623848.641							
CURVE			N 66°29′18.9" E	17.44	ØØ°11′59.3"(RT)	Ø1°Ø8′45.3"	17.44	8.72	5000.00
PT	538709.084	1623864.629							
LINE			N 66°35′18.5" E	400.70					
PC	538868.295	1624232.342							
CURVE			N 64°31′Ø8.3" E	61.39	04°08′20.5"(LT)	Ø6°44′26.4"	61.40	30.72	850.00
PT	538894.706	1624287.760							
LINE			N 62°26′58.1" E	67.04					
PC	538925.714	1624347.199							
CURVE			N 41°37′24.2" E	268.20	41°39′Ø7.7"(LT)	15°11′25.2"	274.20	143.48	377.19
PT	539126.203	1624525.348							
LINE			N 20°47′50.4" E	103.23					
POT	539222.707	1624562.001							

ΕY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	538885.588	1624269.766							
LINE			N 26°Ø5′21.1" W	111.51					
PC	538985.740	1624220.725							
CURVE			N 21°26′49.5" W	186.65	Ø9°17′Ø3.2"(RT)	Ø4°58′Ø7.7"	186.85	93.63	1153.11
PT	539159,462	1624152.480							

PROJECT REFERENCE NO. SHEET NO.

B-6046 rw2c-3

Location and Surveys

Dewberry Engineers Inc.

PROJECT SURVEYOR

THE CAROL

OFESSION

SEAL

L-5298

SURVEY

D PROJECT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Gavin D. Proffit, PLS, certify that the Project Control was verified under my supervision from an actual survey made under my supervision and the following information was used to perform the survey:

Localized around: B-6046-1 Northing:540471.6154 Easting:1626587.5331 Combined grid factor: 0.999853245 Geoid model: GEOID12B Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 04-15-2021 to 06-11-2021, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of July, 2021.

Docusigned by:

Gawin Proffit, PUS

ADABB3C3B86A4C7...

Professional Land Surveyor L-5298

NOTES:

- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

P:\5015213/\CAU\Surveu\b6046\KW †1les\B6046_1\$_rw2c GProffit AT PF14B77A

PROPOSED ALIGNMENT CONTROL SHEET

	ECT REFERENCE NO.	SHEET NO.
	B-6046	RW02D-1
Lo	ocation and S	Surveys
	Dewber	rry°
	Dewberry Engineers Inc 9300 Harris Corners Pkwy - Sulte 221 Charlotte, NC 28269 Phone: 704.509.9018 Fax: 704.509.9037 www.dewberry.com NCBELS #F-0929	
	PROJECT SURVEYOR	
	SEAL L-5298	AHAMININ THE THE PARTY OF THE P
	SEAL L-5298 OF ESS / ON SURVEY OF ESS / ON S	-5298

I, Gavin D. Proffit, PLS, Certify that the data compiled came from available survey/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

Witness my originalsignature, registration number and sealthis 12th day of May, 2022.



TYPE	STATION	NORTH	EAST
PC	10+00.00	538697.6040	1623322.7922
PCC	11+19.45	538624.6118	1623413.2815
PCC	12+34.41	538617.9267	1623527.3615
PT	16+31.70	538723.4194	1623909.0592
PC	19+36.78	538844.6249	1624189.0333
PT	20+19.93	538880.7904	1624263.8767
PC	21+09.28	538922.9780	1624342.6467
PCC	22+54.94	539012.4302	1624456.6703
PT	23+86.84	539124.5517	1624524.5687
POT	25+03.91	539019.9493	1624577.1561

		ΙŢ	
TYPE	STATION	NORTH	EAST
PC	10+00.00	539076.4279	1624181.7525
PT	11+83.04	538909.7763	1624257.2846
POT	12+11.71	538884.2830	1624270.3979

NOTES:

- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 3. RIGHT OF WAY MONUMENTATION ESTABLISHED 05/2022 TO 05/2022.

05-JUL-2022 ||:39 P:\50152137\CAD\Survey\b6046\RW files\b6046-19_rw02d-

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.

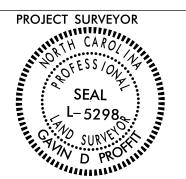
B-6046

RW03E-1

Location and Surveys

Dewberry

Dewberry Engineers Inc. 9300 Harris Corners Pkwy - Suite 220 Charlotte, NC 28269 Phone: 704.509.9918 Fax: 704.509.9937 www.dewberry.com



Gavin D. Proffit PLS 1-5298

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP							
ALIGN	STATION	OFFSET	NORTH	EAST			
L	13+30.00	29.56	538604.5605	1623627.4495			
L	13+30.00	50.00	538584.5178	1623631.4619			
L	13+30.00	-30.46	538663.4138	1623615.6675			
L	13+30.00	-50.00	538682.5722	1623611.8321			
L	16+31.70	50.00	538677.5347	1623928.9235			
L	16+31.70	-50.00	538769.3042	1623889.1950			
L	19+36.78	50.00	538798.7401	1624208.8976			
L	19+36.78	-50.00	538890.5096	1624169.1690			
L	19+70.00	-50.00	538903.5264	1624197.9172			
L	20+19.93	50.00	538836.7139	1624287.4831			
L	20+68.30	-50.00	538947.7029	1624282.9081			
L	21+09.28	50.00	538878.9015	1624366.2531			
L	21+90.00	50.00	538928.9214	1624441.3058			
L	21+90.00	30.77	538943.8219	1624429.1570			
L	22+00.00	-50.00	539012.0724	1624384.8745			
L	22+50.00	-29.54	539028.7784	1624431.6113			

ROW MARKER IRON PIN AND CAP							
ALIGN	STATION	OFFSET	NORTH	EAST			
Y 1	10+15.00	-29.29	539073.4731	1624214.4697			
Y 1	10+50.00	30.56	539018.1865	1624172.6248			
Y 1	10+50.00	-40.00	539045.8643	1624237.5340			
Y 1	11+00.00	40.00	538967.7731	1624184.6148			
Y 1	11+50.00	40.00	538921.6373	1624206.5415			

I, Gavin D. Proffit, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT

Location & Surveys guidelines and procedures.

Ifurther certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my originalsignature, registration number and sealthis 12th day of May, 2022.



L-5298

NOTES:

- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 3. RIGHT OF WAY MONUMENTATION ESTABLISHED 03/2022 TO 04/2022.

05-JUL-2022 ||:39 P:\50152137\CAD\Survey\b6046\RW files\b6046-1s-rw03e-

